BIOMETRICS

Contents of Volume III

ABSTRACTS	58, 104, 193
EDITORIALS	53, 136
NEWS AND NOTES	63, 106, 196
INTERNATIONAL BIOMETRIC CONFERENCE PROCEEDINGS	168
QUERIES	54, 94, 194

ARTICLES and ABSTRACTS

BARTLETT, M. S., The Use of Transformations 39

BELZ, MAURICE, Biometric Work in Australia 179

Biometric Society
Constitution 185
Council Meetings 190
Officers 192

BLISS, C. I., *Abstract #37* 60

2×2 Factorial Experiments in Incomplete Groups for Use in Biological Assays 69

BOSE, R. C., Recent Work on Incomplete Block Designs in India 176

BROWN, GEORGE W., *Abstract #41* 104

COCHRAN, W. G., Some Consequences when the Assumptions for the Analysis of Variance Are Not Satisfied 22

COOK, S. F., *Abstract #43* 193

CURTIS, JACK M., see L. F. KNUDSEN

DEEVEY, EDWARD S., Jr., *Abstract #35* 59

DELURY, D. B., *Abstract #36* 60

On the Estimation of Biological Populations 145

DENSEN, PAUL M., The Development and Use of Statistical Practices in Hospital Work 109

DOERING, CARL R., see H. L. LOMBARD

EISENHART, CHURCHILL, The Assumptions Underlying the Analysis of Variance 1

EMIK, L. OTIS, Statistical Treatment of Counts of Trichostrongylid Eggs 89

FISHER, R. A., The Analysis of Covariance Method for the Relation between a Part and the Whole 65

GREENWOOD, MARY L., *Abstract #40* 104

KNUDSEN, LILA F., and JACK M. CURTIS, *Abstract #39* 62

LOMBARD, HERBERT L., and CARL R. DOERING, Treatment of The Fourfold Table by Partial Correlation as it Relates to Public Health Problems 123

LOTKA, ALFRED J., *Abstract #34* 58

MERRELL, MARGARET, Time-Specific Life Tables Contrasted with Observed Survivorship 129

NANDA, D., Discussion 180

NEURDENBURG, M., Biometric Developments in the Netherlands 179

PACKARD, CHARLES, Welcome to the Marine Biological Laboratory 168

RASCH, G., Recent Biometric Developments in Denmark 172

RASHEVSKY, N., Discussion 180

SCUDDER, H. I., see WILLIAM M. UPHOLT

UPHOLT, WILLIAM M. and SCUDDER, H. I., *Abstract #42* 193

WILCOXON, FRANK, Probability Tables for Individual Comparisons by Ranking Methods 119

YOUDEN, W. J., *Abstract #38* 61

INDEX

Additivity, 10, 16, 35, 40, 50
Adjusted means, 34, 84
Analysis of variance, 1, 22, 39, 70, 72, 137, 139, 194, 195
Angular transformation, 43, 45, 62
Bacteriemia, 175
Bias, 26, 94
Binomial, 42
Biological assay, 60, 62, 65, 69, 173
Biomathematics, 172
Birth rate, 58
Cell division, 181
Census, 145, 193
Chi-square, 91, 98
Coefficient of variation, 26
Component of variation, 4, 31, 54
Computation, 194
Conclusion, 20
Contingency, 123
Continuity, correction for, 46, 125
Control chart, 138
Correlation, 54, 98, 123
  partial, 123
  part with whole, 65
  tetrachoric, 126
Courses in statistics, 111, 179
Covariance, 34, 47, 60, 65, 97
Death rate, 58, 129
Degrees of freedom, 30
Discriminant function, 104
Distribution, 162, 164, 174
Ecology, 59
Efficiency, 25, 26, 28
Entomology, 46, 48, 193
Epidemiology, 173
Error heterogeneity, 28, 37
Error term, 25, 27, 28, 31, 40, 79
Errors correlated, 32
Estimation, 3, 25, 26, 86, 97, 145, 163
Experimental design, 4, 69, 175, 176
Experimental error, 75, 91, 94
Factorial design, 40, 69
Field experiments, 27, 29, 33, 40, 42
Fisheries, 146
Fourfold table, 123
Frequency distribution, 24, 164
F test, 14, 24, 28, 54, 98, 137
Genetics, 54, 99
Gross errors, 27
Growth, 172
Heredity, 54, 99, 123
Homogeneity of variances, 92, 194
Immunology, 173
Incomplete blocks, 69, 176
Information, 36
Interaction, 10, 91
Inverse sine transformation, 43
Latin square, 25, 32, 70, 139
Least squares, 3, 163
Life curve, 58
Life table, 59, 129, 193
Logarithmic transformation, 43, 194
Logistic, 173
Logit, 49, 62
Mathematical biology, 145, 185
Mathematical model, 4, 19, 95, 104, 158, 173
Maximum likelihood, 26, 97
Medicine, 108, 119
Missing plots, 27, 94
Model, see mathematical
Nematology, 89
Nervous system, 182
Non-normality, 23
Paired tests, 25, 92, 119
Palatability tests, 104
Percentages, 56
Plant breeding, 180
Poisson distribution, 32, 41, 90
Populations, 58, 110, 145, 193
Power of test, 14, 22, 25
Probit, 41, 47, 62
Pure variance, 54, 77
Quantitative analysis, 61
Quartile, 56
Randomization, 33
Randomized blocks, 27, 40
Random variable, 9
Ranks, 49, 119, 138
Rate, average, 56
Reaction time, 172, 182
Regression, 47, 66, 97, 103, 105, 137
Rejection of data, 27
Research in statistical methods, 24
Sampling, 19, 101, 163, 193
  systematic, 102
Sampling error, 92
Scores, 49
Sensitivity of test, 22, 28
Serology, 173
Sex ratio, 99
Skewness, 25,
Source of variation, 92
Spurious correlation, 65
Square-root transformation, 41, 91
Standard error, 100, 166
Statistical model, 163
T test, 24, 25, 28, 97
Teaching of statistics, 1, 111, 179
Test of normality, 26
Test of significance, 3, 14, 24, 119, 137, 139
Transformation, 26, 39, 91, 98, 174, 194
Variance, 61, 119
  pure, 54, 77
Weights, 29, 47, 163
X-ray dosage, 60
Yates' correction, 125